

but power transmission via split slip rings would present considerable technical difficulties.

5/ It is desirable, by contrast, for a working machine to be designed to be splittable in order to be placed onto a correspondingly large shaft and for the working machine to be assembled for a machining operation on the shaft, though without requiring power transmission via split slip rings. Moreover, the rotating mass  
10 should be kept as small as possible. In addition, more complicated shaft shapes could also be machined in this way, since the working machine could be placed anywhere on the shaft and therefore even shaft projections would not have any effect. However, splittable rotating  
15 working machines have not been known hitherto.

The object on which the invention is based is to specify a method for carrying out the advancing movement and a feed device for a working machine having  
20 a rotating tool rest, said method and said feed device allowing a split design of the working machine. Machining (lathe-turning, milling, orbital grinding) is to be possible by the NC technique with the rotating working machine.

25 The object is achieved, according to the invention, by means of the features in the characterizing part of claims 1 and 4 in conjunction with the features in the preamble. Expedient refinements of the invention are  
30 contained in the subclaims.

According to the invention, the advancing movement of the tools is generated in that transmission mechanisms are provided, which drive the leadscrews of the tool  
35 rests and are themselves driven at a different speed from the working machine which rotates as a whole; the relative speed between the two then takes effect.